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PR Newswire. New York: Oct 3, 2001. p. 1

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Bobbio, A.; Franceschini, G.; Gaeta, R.; Portinale, L.;
Software Engineering, IEEE Transactions on
Volume 29, Issue 3, March 2003 Page(s):270 - 287
Digital Object Identifier 10.1109/TSE.2003.1183940

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2. **Robust vector quantization for wireless channels**
Wen-Wei Chang; Tan-Hsu Tan; De-Yu Wang;
Selected Areas in Communications, IEEE Journal on
Volume 19, Issue 7, July 2001 Page(s):1365 - 1373
Digital Object Identifier 10.1109/49.932703

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3. **Fast algorithms for measurement-based traffic modeling**
Hao Che; San-Qi Li;
Selected Areas in Communications, IEEE Journal on
Volume 16, Issue 5, June 1998 Page(s):612 - 625
Digital Object Identifier 10.1109/49.700900

[AbstractPlus](#) | [References](#) | [Full Text: PDF\(512 KB\)](#) IEEE JNL

4. **Optimal kinematic design of a 2-DOF planar parallel robot**
Lining Sun; Qingyong Ding; Xinyu Liu;
Robotics, Automation and Mechatronics, 2004 IEEE Conference on
Volume 1, 1-3 Dec. 2004 Page(s):225 - 230 vol.1

[AbstractPlus](#) | [Full Text: PDF\(423 KB\)](#) IEEE CNF

5. **Relevance feedback for content-based retrieval in video databases: a new approach**
Doulamis, A.D.; Doulamis, N.D.; Kollias, S.D.;
Electronics, Circuits and Systems, 1999. Proceedings of ICECS '99. The 6th IE
Conference on
Volume 3, 5-8 Sept. 1999 Page(s):1745 - 1748 vol.3
Digital Object Identifier 10.1109/ICECS.1999.814514

[AbstractPlus](#) | [Full Text: PDF\(452 KB\)](#) IEEE CNF

6. A neural network approach to interactive content-based retrieval of video
Doulamis, N.D.; Doulamis, A.D.; Kollias, S.D.;
Image Processing, 1999. ICIP 99. Proceedings. 1999 International Conference
Volume 2, 24-28 Oct. 1999 Page(s):116 - 120 vol.2
Digital Object Identifier 10.1109/ICIP.1999.822866
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1 Efficient search for approximate nearest neighbor in high dimensional spaces 

Eyal Kushilevitz, Rafail Ostrovsky, Yuval Rabani

May 1998 **Proceedings of the thirtieth annual ACM symposium on Theory of computing**

Full text available:  pdf(1.38 MB) Additional Information: full citation, references, citations, index terms

2 Customizing information capture and access 

Daniela Rus, Devika Subramanian

January 1997 **ACM Transactions on Information Systems (TOIS)**, Volume 15 Issue 1

Full text available:  pdf(1.26 MB) Additional Information: full citation, abstract, references, citations, index terms, review

This article presents a customizable architecture for software agents that capture and access information in large, heterogeneous, distributed electronic repositories. The key idea is to exploit underlying structure at various levels of granularity to build high-level indices with task-specific interpretations. Information agents construct such indices and are configured as a network of reusable modules called structure detectors and segmenters. We illustrate our architectu ...

Keywords: information gathering, software agents, table recognition

3 The 2-center problem with obstacles 

Dan Halperin, Micha Sharir, Ken Goldberg

May 2000 **Proceedings of the sixteenth annual symposium on Computational geometry**

Full text available:  pdf(1.13 MB) Additional Information: full citation, references, index terms

4 Interval methods for multi-point collisions between time-dependent curved surfaces 

John M. Snyder, Adam R. Woodbury, Kurt Fleischer, Bena Currin, Alan H. Barr

September 1993 **Proceedings of the 20th annual conference on Computer graphics and interactive techniques**

Full text available:  pdf(422.51 KB) Additional Information: full citation, references, citations, index terms

Keywords: inclusion function, interval Newton method, interval linear equation

5 Parametric polymorphism for XML

Haruo Hosoya, Alain Frisch, Giuseppe Castagna

January 2005 **ACM SIGPLAN Notices , Proceedings of the 32nd ACM SIGPLAN-SIGACT symposium on Principles of programming languages**, Volume 40 Issue 1

Full text available: [pdf\(284.23 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Despite the extensiveness of recent investigations on static typing for XML, parametric polymorphism has rarely been treated. This well-established typing discipline can also be useful in XML processing in particular for programs involving "parametric schemas," i.e., schemas parameterized over other schemas (e.g., SOAP). The difficulty in treating polymorphism for XML lies in how to extend the "semantic" approach used in the mainstream (monomorphic) XML type systems. A naive extension would be " ...

Keywords: XML, polymorphism, subtyping, tree automata

6 Fast algorithms for parametric scheduling come from extensions to parametric maximum flow

S. Thomas McCormick

July 1996 **Proceedings of the twenty-eighth annual ACM symposium on Theory of computing**

Full text available: [pdf\(1.14 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

7 Strongly polynomial-time and NC algorithms for detecting cycles in periodic graphs

Edith Cohen, Nimrod Megiddo

September 1993 **Journal of the ACM (JACM)**, Volume 40 Issue 4

Full text available: [pdf\(2.88 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

Keywords: application of multidimensional search, application of parametric method, strongly polynomial algorithms periodic graphs

8 On the measurement of inter-linker consistency and retrieval effectiveness in hypertext databases

David Ellis, Jonathan Furner-Hines, Peter Willett

August 1994 **Proceedings of the 17th annual international ACM SIGIR conference on Research and development in information retrieval**

Full text available: [pdf\(1.04 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

9 Research sessions: Web, XML and IR: FleXPath: flexible structure and full-text querying for XML

Sihem Amer-Yahia, Laks V. S. Lakshmanan, Shashank Pandit

June 2004 **Proceedings of the 2004 ACM SIGMOD international conference on Management of data**

Full text available: Additional Information:

[pdf\(437.86 KB\)](#)[full citation, abstract, references, citings](#)

Querying XML data is a well-explored topic with powerful database-style query languages such as XPath and XQuery set to become W3C standards. An equally compelling paradigm for querying XML documents is full-text search on textual content. In this paper, we study fundamental challenges that arise when we try to integrate these two querying paradigms. While keyword search is based on approximate matching, XPath has exact match semantics. We address this mismatch by considering queries on structure ...

10 Using statistical testing in the evaluation of retrieval experiments

David Hull

July 1993 **Proceedings of the 16th annual international ACM SIGIR conference on Research and development in information retrieval**Full text available: [pdf\(952.75 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The standard strategies for evaluation based on precision and recall are examined and their relative advantages and disadvantages are discussed. In particular, it is suggested that relevance feedback be evaluated from the perspective of the user. A number of different statistical tests are described for determining if differences in performance between retrieval methods are significant. These tests have often been ignored in the past because most are based on an assumption of normality which ...

11 Sequential thematic organization of publications: how to achieve coherence in proposals and reports

J. R. Tracey, D. E. Rugh, W. S. Starkey

August 1999 **ACM SIGDOC Asterisk Journal of Computer Documentation**, Volume 23 Issue 3Full text available: [pdf\(3.80 MB\)](#)Additional Information: [full citation](#), [index terms](#)

12 Structured documents: Searching XML documents via XML fragments

David Carmel, Yoelle S. Maarek, Matan Mandelbrod, Yosi Mass, Aya Soffer

July 2003 **Proceedings of the 26th annual international ACM SIGIR conference on Research and development in information retrieval**Full text available: [pdf\(402.39 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Most of the work on XML query and search has stemmed from the publishing and database communities, mostly for the needs of business applications. Recently, the Information Retrieval community began investigating the XML search issue to answer information discovery needs. Following this trend, we present here an approach where information needs can be expressed in an approximate manner as pieces of XML documents or "XML fragments" of the same nature as the documents that are being searched. We pr ...

Keywords: XML fragments, XML search & retrieval, vector space model

13 Session 7B: Approximate local search in combinatorial optimization

James B. Orlin, Abraham P. Punnen, Andreas S. Schulz

January 2004 **Proceedings of the fifteenth annual ACM-SIAM symposium on Discrete algorithms**Full text available: [pdf\(200.80 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Local search algorithms for combinatorial optimization problems are in general of pseudopolynomial running time and polynomial-time algorithms are often not known for finding locally optimal solutions for NP-hard optimization problems. We introduce the

concept of ε -local optimality and show that an ε -local optimum can be identified in time polynomial in the problem size and $1=\varepsilon$ whenever the corresponding neighborhood can be searched in polynomial time, for $\varepsilon > 0$. If the ne ...

14 Multidocument summarization: An added value to clustering in interactive retrieval

Manuel J. Maña-López, Manuel De Buenaga, José M. Gómez-Hidalgo

April 2004 **ACM Transactions on Information Systems (TOIS)**, Volume 22 Issue 2

Full text available:  pdf(199.91 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

A more and more generalized problem in effective information access is the presence in the same corpus of multiple documents that contain similar information. Generally, users may be interested in locating, for a topic addressed by a group of similar documents, one or several particular aspects. This kind of task, called instance or aspectual retrieval, has been explored in several TREC Interactive Tracks. In this article, we propose in addition to the classification capacity of clustering techn ...

Keywords: Multidocument summarization, topic segmentation

15 IR-5 (information retrieval): information retrieval applications: Associative document retrieval by query subtopic analysis and its application to invalidity patent search

Toru Takaki, Atsushi Fujii, Tetsuya Ishikawa

November 2004 **Proceedings of the thirteenth ACM conference on Information and knowledge management**

Full text available:  pdf(183.00 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We propose an associative document retrieval method, in which a document is used as a query to search for other similar documents. Because a long document usually includes more than one topic, we first analyze a query document to extract multiple subtopics. For each subtopic element, a sub-query is produced and similar documents are retrieved with a relevance score. The relevance scores are weighted by the importance of each subtopic element and are integrated to determine the final relevant ...

Keywords: associative document retrieval, invalidity patent search, query subtopic analysis, subtopics

16 Student papers: Optimal multi-paragraph text segmentation by dynamic programming

Oskari Heinonen

August 1998 **Proceedings of the 36th annual meeting on Association for Computational Linguistics - Volume 2**

Full text available:  pdf(272.35 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

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There exist several methods of calculating a similarity curve, or a sequence of similarity values, representing the lexical cohesion of successive text constituents, e.g., paragraphs. Methods for deciding the locations of fragment boundaries are, however, scarce. We propose a fragmentation method based on dynamic programming. The method is theoretically sound and guaranteed to provide an optimal splitting on the basis of a similarity curve, a preferred fragment length, and a cost function define ...

17 Array expansion

P. Feautrier

June 1988 **Proceedings of the 2nd international conference on Supercomputing**

Additional Information:

Full text available:  pdf(872.76 KB)

[full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A common problem in restructuring programs for vector or parallel execution is the suppression of false dependencies which originate in the reuse of the same memory cell for unrelated values. The method is simple and well understood in the case of scalars. This paper gives the general solution for the case of arrays. The expansion is done in two steps: first, modify all definitions of the offending array in order to obtain the single assignment property. Then, reconstruct the origin ...

18 Graphcut textures: image and video synthesis using graph cuts

Vivek Kwatra, Arno Schödl, Irfan Essa, Greg Turk, Aaron Bobick
July 2003 **ACM Transactions on Graphics (TOG)**, Volume 22 Issue 3

Full text available:  pdf(23.86 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

In this paper we introduce a new algorithm for image and video texture synthesis. In our approach, patch regions from a sample image or video are transformed and copied to the output and then stitched together along optimal seams to generate a new (and typically larger) output. In contrast to other techniques, the size of the patch is not chosen *a-priori*, but instead a *graph cut* technique is used to determine the optimal patch region for any given offset between the input and output ...

Keywords: image and video processing, image-based rendering, machine learning, natural phenomenon, texture synthesis

19 Unifying heterogeneous information models

Narinder Singh
May 1998 **Communications of the ACM**, Volume 41 Issue 5

Full text available:  pdf(336.15 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

20 Ray shooting in convex polytopes

Otfried Schwarzkopf
July 1992 **Proceedings of the eighth annual symposium on Computational geometry**

Full text available:  pdf(1.04 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Let H be a set of n halfspaces in E_d (where the dimension $d \geq 4$ is fixed), and $P(H)$ the convex polytope defined as their intersection. We show that $P(H)$ can be preprocessed in time and space $O(n[d/2]/(\log n)[d/2])$ (for any fixed ϵ) (for any fixed ϵ & ...

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